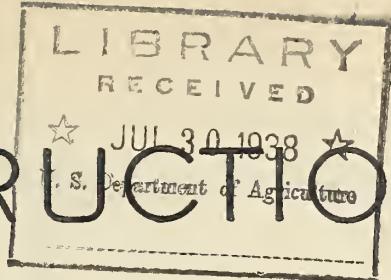


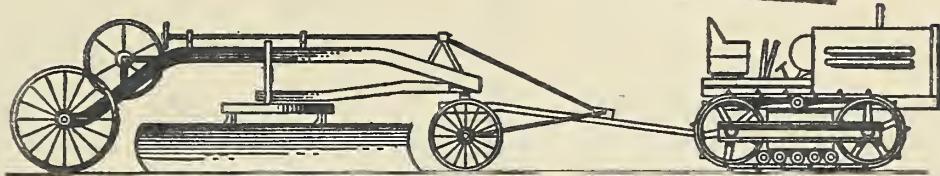
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Do not assume content reflects current scientific knowledge, policies, or practices.

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CONSTRUCTION



HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
WASHINGTON, D.C.

Vol. 4

July 23, 1938.

No. 14

INSTRUCTIONS FOR CAMBER MEASURE

Illustrated on Page 2.

This camber measure is a simple device to accurately measure the amount of camber in front wheels of automobiles.

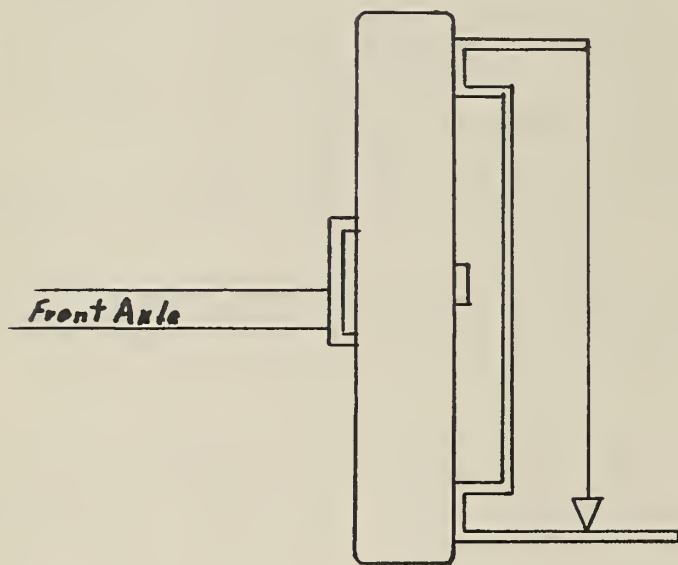
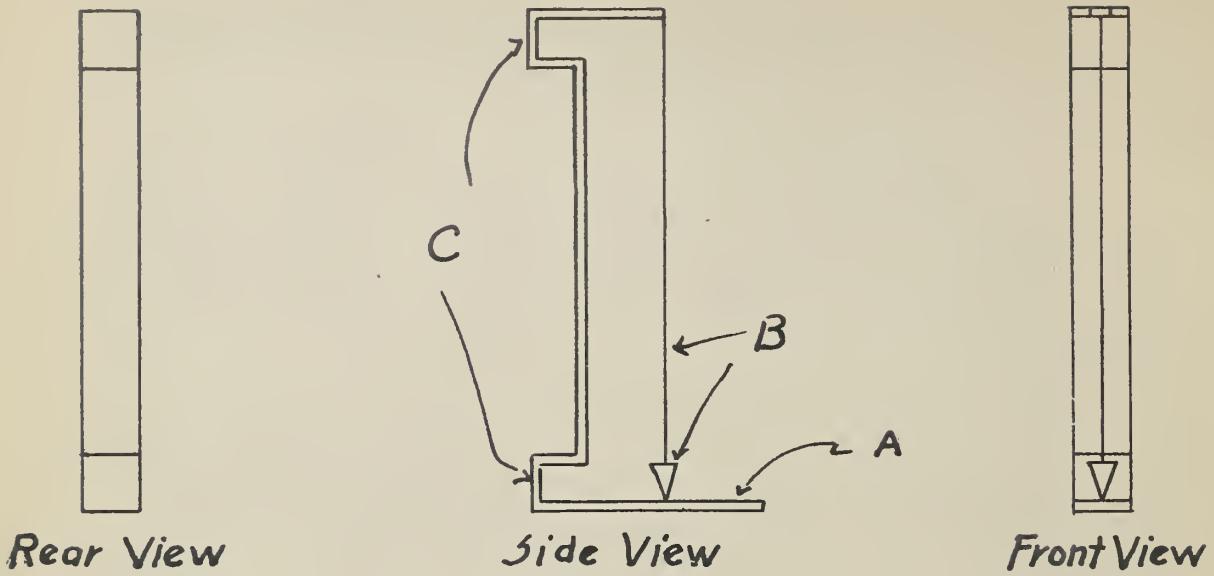
The correct camber is specified by manufacturers and is an important factor of the steering mechanism which is often overlooked in maintenance of the front axle and assembly.

This measure can be made from $1/4$ " by 1" strap iron, bent as shown in the side view. The plumb bob and string (B) should be attached in such a manner that the bob clears (A). Points "C" should be placed against some vertical object and a lasting mark made on "A" under point of bob. This is "0" on the vernier "A".

From this mark (0) all readings can be marked on vernier (A). Place measure first on one front wheel, record reading by marking directly under plumb bob, repeat same on other front wheel. Using "0", as definitely marked, as a base and by compensating the readings, the exact amount of camber can be measured.

(Over)

CAMBER MEASURE



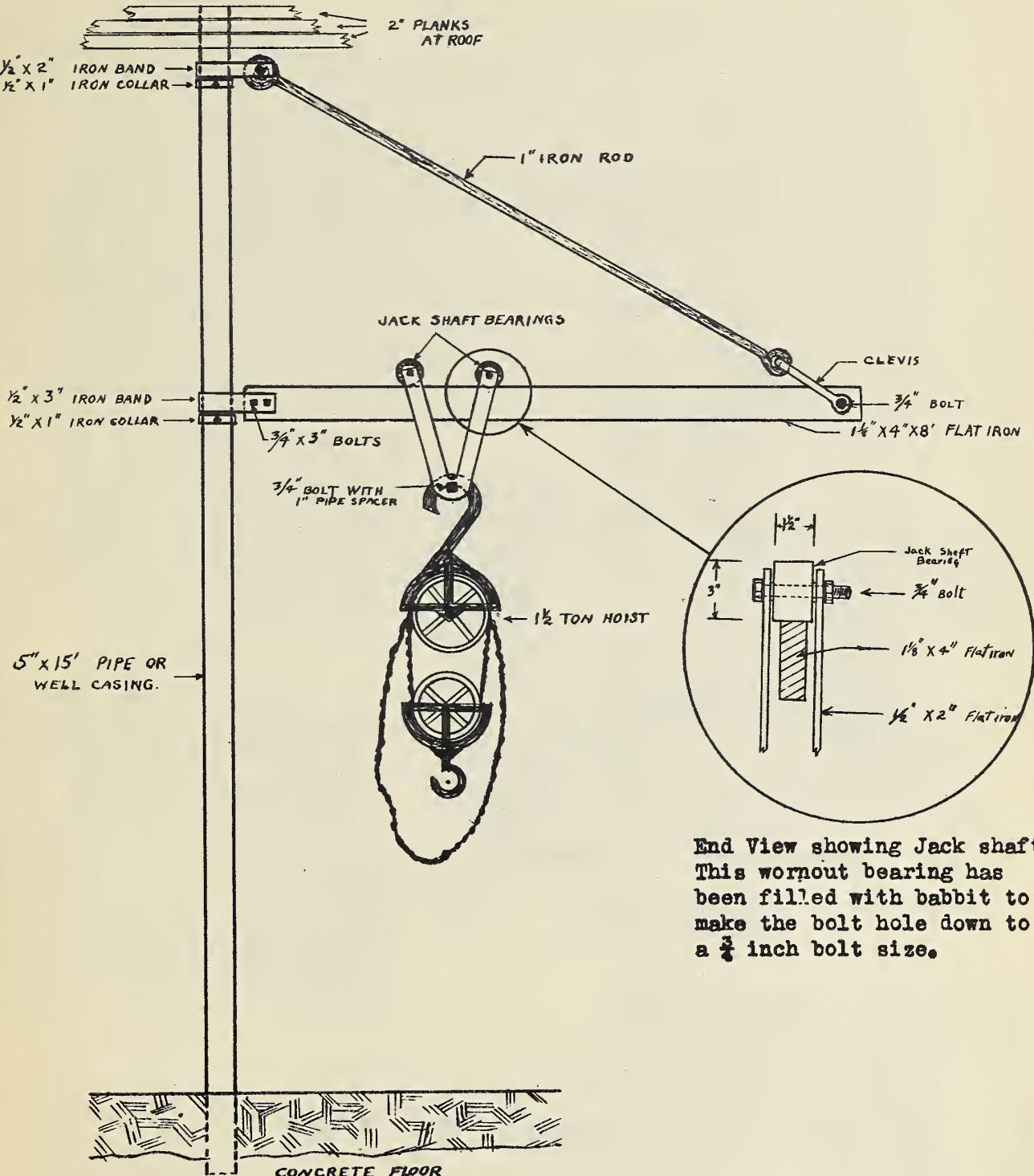
Working Position

By Senior Foreman Ira G. Tanner,
Gardner Purchase Unit,
Missouri.

THREE WAY SHOP CRANE

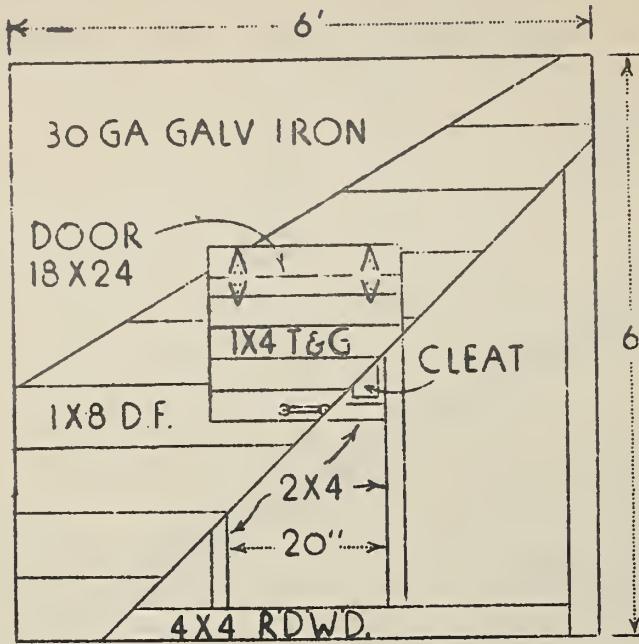
Designed by Melvin A. Pearson - Mechanic

Camp Rusk 93 - S Glen Flora, Wisconsin.

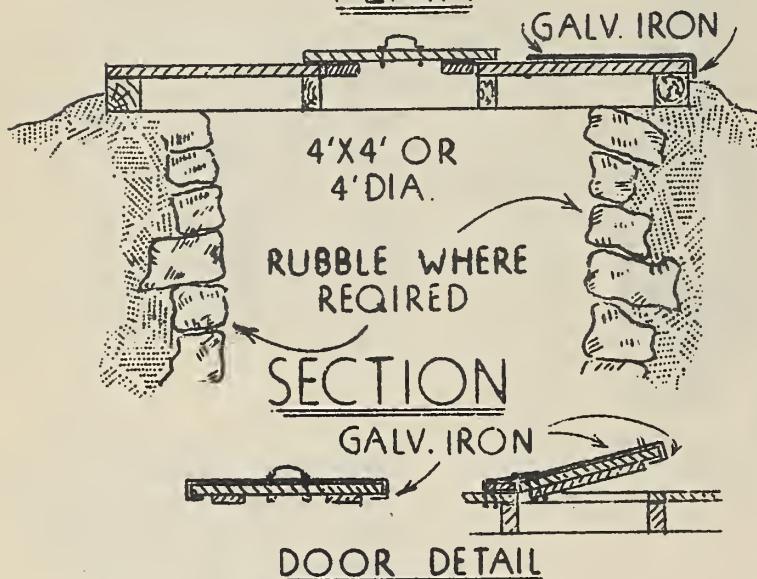


End View showing Jack shaft.Bear.
This wornout bearing has
been filled with babbitt to
make the bolt hole down to
a $\frac{3}{8}$ inch bolt size.

REGION 5 GARBAGE PIT & COVER.



PLAN



COVER

Garbage pit covers are to be constructed of 1"x8" common lumber on a 4"x4" Redwood frame. The door frame of 2"x4" are to be D.F. The door to be constructed of 1"x4" T&G flooring with 4" strap hinges fastened on with stove bolts. The entire top surface is to be covered with 30 gauge galv. sheet metal carrying it over the edges and down the sides 2", all to be securely nailed. The door is to be covered with sheet metal also bending the metal down over the edges and fastening securely underneath. For lifting use a drawer pull of the type which can be bolted on with stove bolts. Where stove bolts for hinges would enter the 2"x4" frame, substitute $2\frac{1}{2}$ " wood screws.

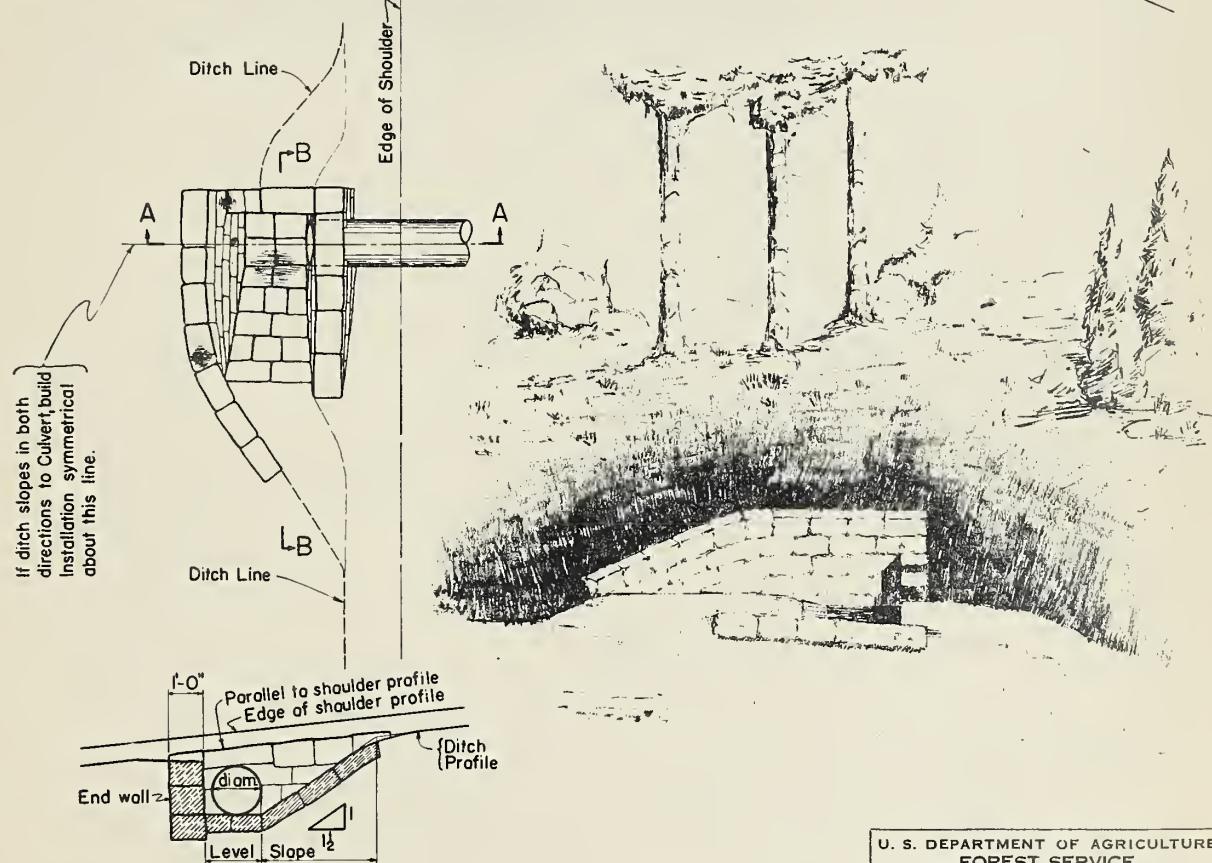
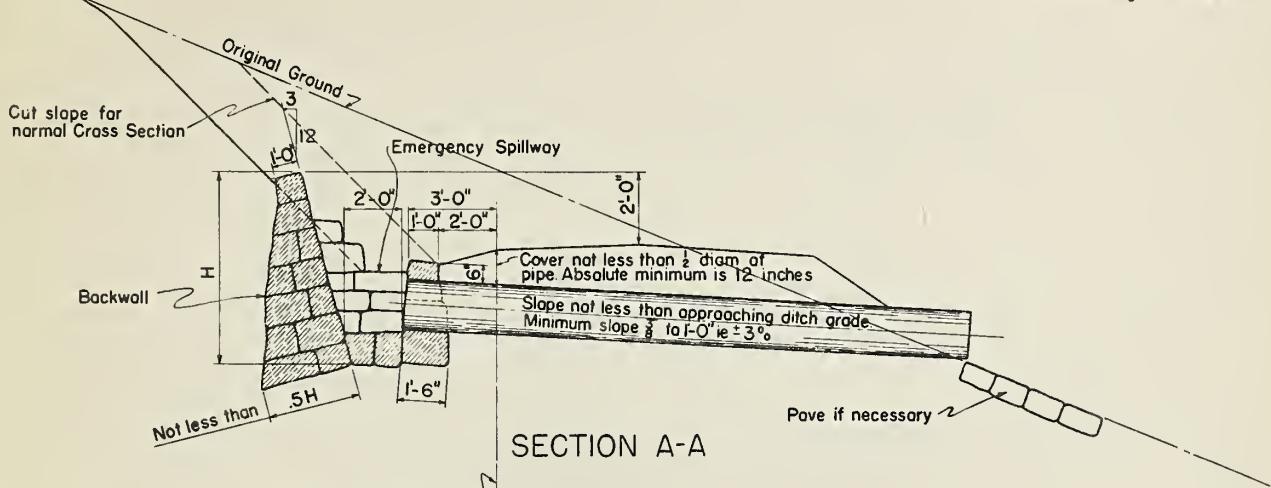
PIT

The pit is to be 4"x4" square with a 6' minimum depth. A 4' diameter circular pit is permitted. In locations where there is very loose soil or very heavy use, the pit should be lined with rock. The rock should be well laid up and so placed as to hold their position by their own weight. A slight taper in the wall is allowable to facilitate laying rock.

BILL OF MATERIAL

2 Pcs.	4"x4"x12' Rough Redwood		
1 "	2"x4"x12' Rough Douglas Fir		
5 "	1"x8"x12' Rough Douglas Fir		
2 "	1"x4"x8' T&G Flooring		
24	3/16"x2 $\frac{1}{2}$ " Stove Bolts w/ washers	Est.	\$ 5.16
1	Door Pull		
1 lb.	16d Nails		
2 lbs.	8d Nails		
2 pcs.	24"x96" Smooth Galv. Iron	Est.	\$ 5.00
1 pc.	30"x96" Smooth Galv. Iron		

Estimate Total \$10.16



U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE		
REGION SEVEN	J.C. DORT	REGIONAL ENGINEER
CULVERT INSTALLATION SIDEHILL SECTION		
DESIGNED M.S.B.-I.R.M., DRAWN H.D.J., TRACED H.D.J., SCALE 1:1-0" CHE-CHED APPROVED <i>(Signature)</i> DATE 12-1-36		

